

**DRAFT SCREENING SITE INVESTIGATION
FOR THE
HALPERN METALS COMPANY/
A. PEREZ AND SON
5010 LANCASTER AVENUE
PHILADELPHIA, PENNSYLVANIA
ECKEL SITE NUMBERS 56/304**

Prepared for

U.S. Environmental Protection Agency Region 3
Hazardous Property Cleanup Division
1650 Arch Street
Philadelphia, PA 19103

Prepared by

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Remedial Action Contract No. 68-S7-3002
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Project No. I4185.47502.0903

February 1, 2007

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1.0 INTRODUCTION

Under Remedial Action Contract (RAC) No. 68-S7-3002, Work Assignment No. 048-PAPA-03ZZ, U.S. Environmental Protection Agency (EPA) Region 3 tasked Tetra Tech, Inc. (Tt), to assist EPA Region 3 in the assessment of properties suspected to have been former lead smelter foundries. Tt subcontracted completion of this work assignment to Tetra Tech EM Inc. (Tetra Tech).

Former lead smelter sites nationwide were identified in an April 2001 article published in the American Journal of Public Health by Eckel, and others (Eckel study) (Reference [Ref.] 1). The majority of these lead smelters operated prior to 1964 and closed before the current environmental regulations were instituted. As part of the Eckel study, soil samples were collected from several of the identified former lead smelter properties. Results from the analysis of these soil samples indicated that concentrations of lead exceeded EPA's recommended screening level for lead in residential soils. The results of the Eckel study indicate that the air disposition of lead into soils from the former smelter operations may present an ongoing public health concern due to exposure of residential populations, especially children, located in the vicinity of these former lead smelters, to soils containing elevated concentrations of lead (Refs. 1, 2, and 3).

The Eckel study identified 77 properties that may have been formerly used as lead smelters within EPA Region 3 (Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia). EPA Region 3 is currently investigating these 77 properties. The objective of EPA's investigation of these properties is to (1) determine the potential for lead-contaminated soil to be present at the former lead smelter site or nearby properties (2) identify any populations that may be at risk to exposure to this soil, and (3) determine if soil sampling is warranted at any of these sites or nearby properties.

The following activities were completed as part of the initial screening investigation of each of these former lead smelter sites: (1) verify the former lead smelter address listed in the Eckel study through historical Sanborn fire insurance maps, tax parcel information, and/or contacting

local agencies, (2) determine if the site is listed in EPA's Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database, (3) determine through census information and existing maps the number of schools, daycare centers or recreational parks that exist near the former lead smelter site, (4) determine the population residing within a 4-mile radius of the site, (5) conduct a windshield reconnaissance of the site and surrounding area to document the current land use, identify any exposed soil and verify the existence of any schools, daycare centers or parks in the immediate area, and (6) review all information acquired to determine if the collection and analysis of soil samples is warranted at the site or at any nearby property.

This report summarizes the findings of the tasks outlined above for the former lead smelters known as the Halpern Metals Company and the A. Perez and Son site both located at 5010 Lancaster Avenue in Philadelphia, Pennsylvania, 19131. Each former smelter property was given a number in Eckel's study. The Eckel study number for the Halpern Metals Company is 56 and for the A. Perez and Son is 304 (Ref. 1).

2.0 SITE LOCATION

The former Halpern Metals Company and A. Perez and Son facilities were both located at 5010 Lancaster Avenue in Philadelphia, Pennsylvania, 19131. The geographic coordinates of the former Halpern Metals Company and A. Perez and Son facility are 39.97524278° north latitude and 75.22326111° west longitude on the Philadelphia, Pennsylvania Quadrangle, 7.5 minute series, United States Geological Survey topographic map (see Appendix A, Figure 1). The site is not currently listed in EPA's CERCLIS database (Ref. 4). An aerial photograph of the vicinity of the former lead smelter site has been included in Appendix A, Figure 2. This aerial photograph reveals the exposed soils and any identified areas of potential concern such as schools, daycare centers, or parks located within a half-mile radius of the site.

3.0 SITE OBSERVATIONS

On October 13, 2005, Tetra Tech completed a non-sampling windshield reconnaissance of the Halpern Metals Company and A. Perez and Son site and surrounding area. A photographic record of the current site conditions is included in Appendix B. Figure 3, shows the current layout of the site and surrounding area as observed during Tetra Tech's site reconnaissance. The following observations were recorded:

- The property is currently occupied by AnJon Beverage Distributor in a mixed commercial and residential area of Philadelphia.
- A daycare center is adjacent to the north side of the subject property on Lancaster Avenue. Residential properties are adjacent to the south side of the subject property on Lancaster Avenue. Commercial and residential buildings are located on the north side of Lancaster Avenue across from the subject property.
- There are residential buildings on roads running perpendicular to Lancaster Avenue and on Warren Street, which is located one block south of Lancaster Avenue. The residential buildings abut the properties on the southern side of Lancaster Avenue.
- Lady of Angels School is located to the immediate south of the subject property.
- Exposed soils were identified in the immediate vicinity of the subject property on numerous residential properties.

4.0 POTENTIAL TARGETS

Potential targets identified that may be exposed to lead-contaminated soils remaining in the vicinity of the former Halpern Metals Company and A. Perez and Son site include the nearby residential population, children attending schools and daycare centers, and any workers that may

be employed at or in the nearby vicinity of the site. The residential population within a 4-mile radius of the site is summarized in the table below (Ref. 5).

Population Within a Four-mile Radius of the Site

Distance Ring (miles)	Population (number of persons)
0.0 to 0.25	2,010
0.25 to 0.5	6,977
0.5 to 1.0	39,444
1.0 to 2.0	131,330
2.0 to 3.0	184,195
3.0 to 4.0	248,270

Source: U.S. Department of Commerce. Landview V Environmental Mapping Software based on the Bureau of Census 2000 Population Data. December 6, 2005.

A daycare center is located adjacent to the subject property. Five schools were identified within one-half mile of the site. Lady of Angels School is located to the immediate south of the site. Saint Gregory's School is located approximately one-quarter mile northwest of the site. Shoemaker Junior High School is located approximately one-third mile northwest of the site. Heston School and Blankenburg School are located approximately one-half mile northwest and southeast of the site, respectively. Durham Park is located approximately one-third to one-half mile southwest of the site adjacent to a large cemetery. The edge of Fairmount Park is approximately one-half mile north of the site.

5.0 FINDINGS AND RECOMMENDATIONS

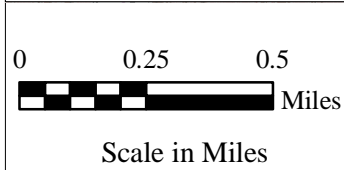
The site is located in a mixed residential and commercial area of Philadelphia, Pennsylvania. Exposed soils were observed in the vicinity of the former location of the lead smelter. The former lead smelter is surrounded by residential properties and a school and daycare facility are located within one block of the site; therefore, to determine if there is a threat to these potential targets from elevated levels of lead in soils, it is recommended that soil samples be collected from nearby residential yards, the daycare center and school and analyzed for lead levels.

REFERENCES

1. Eckel, W.P., Rabinowitz, M.B., Foster, G.D. American Journal of Public Health. "Discovering Unrecognized Lead-Smelting Sites by Historical Methods". April 2001.
2. Pennsylvania Department of Health. Suspected Former Lead Smelter Sites: A Potential Risk Factor for Childhood Lead Poisoning. August 2004.
3. U.S. Environmental Protection Agency (EPA). Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities. OSWER Directive 9355.4-12. July 14, 1994.
4. U.S. EPA. Comprehensive Environmental Response, Compensation, and Liability Act Information System (CERCLIS) database. On-Line Address: <http://cfpub.epa.gov/supercpad/cursites/srchsites.cfm>
5. U.S. Census Bureau. State and County Quick Facts. Accessed On-Line on December 6, 2005. On-Line Address: quickfacts.census.gov/qfd/states/42.html.

APPENDIX A

Figures



Halpern Metals Co./A. Perez and Son
5010 Lancaster Avenue
Philadelphia, Pennsylvania
Eckel Site Nos. 56 and 304

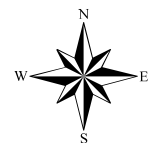
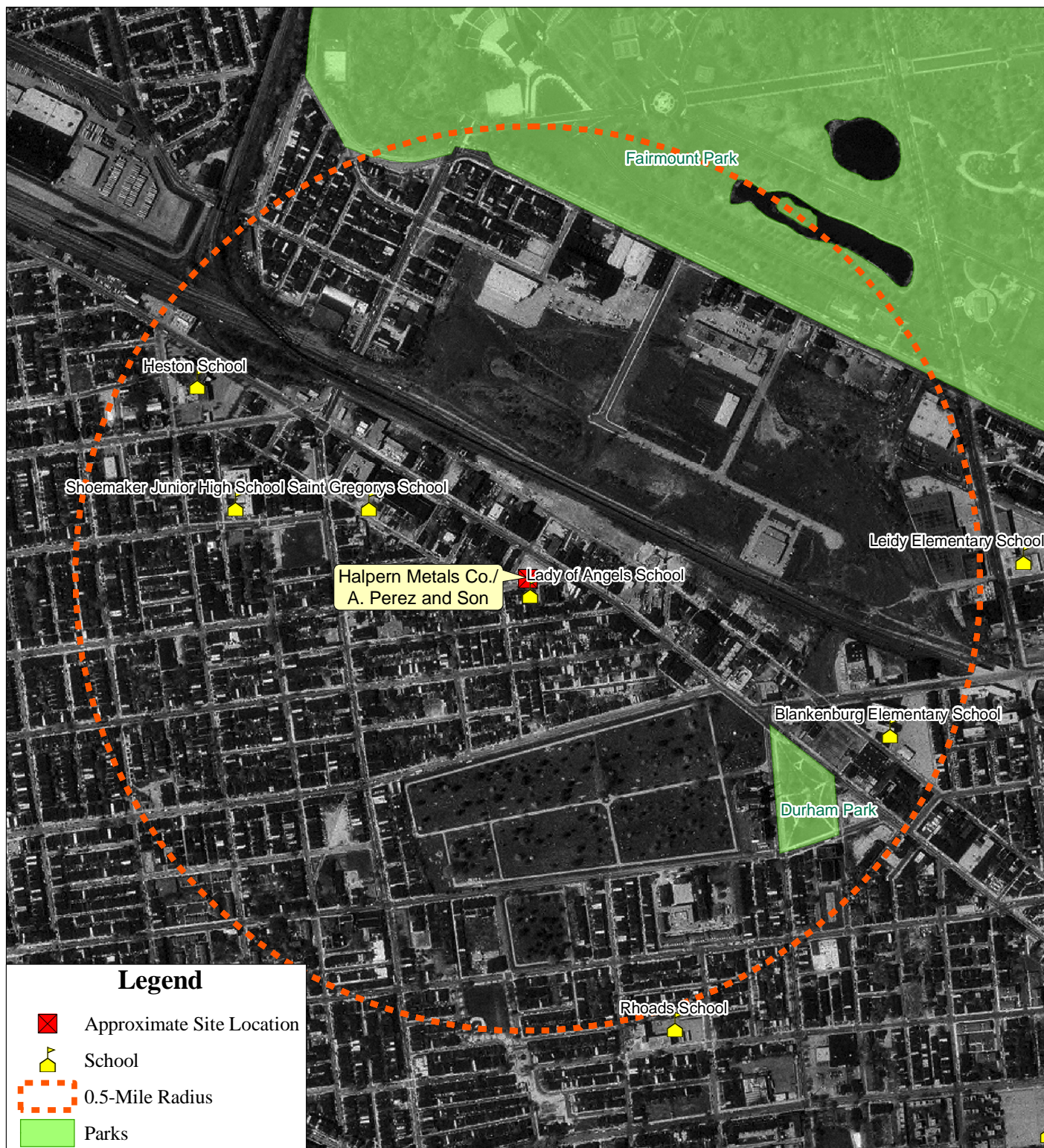


Figure 1
Site Location Map

Source: Modified from USGS 7.5-Minute Series Topographic Quadrangle, Philadelphia, Pennsylvania, 1967, Revised 1994





0 500 1,000
Feet
Scale in Feet

Halpern Metals Co./A. Perez and Son
5010 Lancaster Avenue
Philadelphia, Pennsylvania
Eckel Site Nos. 56 and 304

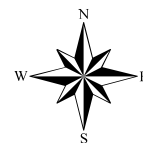





Figure 2
Aerial Photograph


Source: Modified from Digital Orthophoto (DOQQ) MrSID mosaic for Philadelphia Quadrangle (NAPP III, 1997-2001)





Legend

-  Railroad tracks
-  Buildings
-  Pervious surface

0 50 100 150
 Feet
 Scale in Feet

Halpern Metals Co./A. Perez and Son
 5010 Lancaster Avenue
 Philadelphia, Pennsylvania
 Eckel Site Nos. 56 and 304

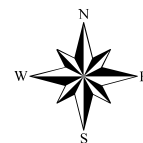


Figure 3
 Site Layout Map

Source: Modified from Philadelphia City Planning Commission (PCPC) Department - GIS Division, 2006.



APPENDIX B

Photographic Documentation



Photographic Documentation

Site Name: Halpern Metals Company/A. Perez and Son-
Eckel Numbers 56 and 304

Location: 5010 Lancaster Avenue, Philadelphia,
Pennsylvania

Prepared by: Tetra Tech EM Inc.

Photographer: [REDACTED]

Photograph No. 1

Photograph Date:
October 13, 2005

Description: Former Halpern Metals Company and A. Perez and Son property, which is now occupied by AnJon Beverage Distributors.



Photograph No. 2

Photograph Date:
October 13, 2005

Description: Residential buildings on the corner of 50th Street and Lancaster Avenue.





Photographic Documentation

Site Name: Halpern Metals Company/A. Perez and Son-
Eckel Numbers 56 and 304

Prepared by: Tetra Tech EM Inc.

Location: 5010 Lancaster Avenue, Philadelphia,
Pennsylvania

Photographer: [REDACTED]

Photograph No. 3

Photograph Date:
October 13, 2005

Description: View of residential
homes along 50th Street south of
Lancaster Avenue.



Photograph No. 4

Photograph Date:
October 13, 2005

Description: Church located
southeast of the subject property.





Photographic Documentation

Site Name: Halpern Metals Company/A. Perez and Son-
Eckel Numbers 56 and 304

Prepared by: Tetra Tech EM Inc.

Location: 5010 Lancaster Avenue, Philadelphia,
Pennsylvania

Photographer: [REDACTED]

Photograph No. 5

Photograph Date:
October 13, 2005

Description: Commercial and
residential building on the north
side of Lancaster Avenue across
from the subject property.



Photograph No. 6

Photograph Date:
October 13, 2005

Description: Residential homes
along Master Street that abut the
subject property to the rear.





Photographic Documentation

Site Name: Halpern Metals Company/A. Perez and Son-
Eckel Numbers 56 and 304

Prepared by: Tetra Tech EM Inc.

Location: 5010 Lancaster Avenue, Philadelphia,
Pennsylvania

Photographer: [REDACTED]

Photograph No. 7

Photograph Date: October 13,
2005

Description: View of southern
side of Lancaster Avenue
between 50th and 51st Streets.
The pink building is a daycare
center located adjacent to the
subject property.

